

So Stealth

R FOR:

Sov. STEALTH

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ELEMENT	W	T	WT	003	011	018	025	032	079	095
<u>C. RELATIONSHIPS:</u>										
US practically disappears Sov does but leaves bigger trace					1					
Not as dark as US some silver showing.						1				
Skin coating Primarily on underside.						1				
Sov aircraft compared to US						1				
a. Sov. vs. more maneuverable						1				
b. US odds an aircraft of accomplishing mission higher						1				
c. Sov. flies faster, higher, straighter						1				
d. Sov. less maneuverable.						1				
e. Sov not as successful at NOE travel						1				
f. Sov has conservative design						1				
Sov. has conservative design approach						1				
g. steel cables instead of electronic links						1				
h. conventional control surfaces						1				
i. less versatile + precise fire control						1				
US + Sov weaknesses compared						1				
a. US fire consuming to produce						1				
b. US some systems still experimental						1				
c. Sov unestablished field condition track record						1				
d. US erosion some sort of hazard						1				
e. US limited payload						1				

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<u>C. RELATIONSHIPS:</u>										
<u>Aircraft not as fancy as US</u>						1				
a. in design						1				
b. in construction						1				
<u>Aircraft performs in tighter envelope than US</u>						1				
a. less forgiving of mishandling						1				
b. performance limits lower						1				
c. capabilities more limited						1				
d. not as refined in manufacture						1				
e. less attention to detail not directly function related						1				
<u>Aircraft will be kept close to home</u>						1				
<u>Comparison to US aircraft</u>						1				
a. more rigid						1				
b. more metal content						1				
c. signatures greater but still less than norm						1				
d. easier to make lots of aircraft						1				
<u>Designed to reduce signatures</u>						1				
a. cross cross-section						1				
b. density						1				
c. reflective						1				
d. noise						1				
e. heat						1				
f. for for bor						1				
g. deflecting						1				
h. magnetic						1				

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<u>C. RELATIONSHIPS:</u>										
<u>So aircraft</u>					1					
<u>a. slopes up from tail to nose</u>						1				
<u>b. nose is close to ground</u>						1				
<u>c. from front has flat appearance.</u>						1				
<u>d. canopy is faceted</u>						1				
<u>e. body elements (wings, stabilizers, canopy, air intake) merge smoothly into fuselage</u>						1				
<u>f. symmetrical top to bottom</u>						1				
<u>g. body slopes out, edges rounded</u>						1				
<u>h. wings bulge with thicker part at end</u>						1				
<u>i. Two engines</u>						1				
<u>j. Air coming out cooler than usual</u>						1				
<u>k. iris-type thing at back of engine opens + closes as necessary</u>						1				
<u>l. microprocessor helps aircraft fly</u>						1				